

Result No.	Score	Query	Match	Length	DB	ID	Description
<b>SUMMARIES</b>							
1	3595312	total number of hits satisfying chosen parameters:					
2	0	Minimum DB seq length:					
3	200000000	Maximum DB seq length:					
4	0%	Post-processing: Minimum Match					
5	100%	Maximum Match					
6	45	Listing first 45 summaries					
7		GenEmbl:*					
8		1: qb_ba:*					
9		2: qb_htg:*					
10		3: qb_in:*					
11		4: qb_com:*					
12		5: qb_ov:*					
13		6: qb_pat:*					
14		7: qb_ph:*					
15		8: qb_pl:*					
16		9: qb_pr:*					
17		10: qb_ro:*					
18		11: qb_sts:*					
19		12: qb_sy:*					
20		13: qb_un:*					
21		14: qb_vt:*					
22		15: em_ba:*					
23		16: em_fun:*					
24		17: em_hum:*					
25		18: em_in:*					
26		19: em_mu:*					
27		20: em_om:*					
28		21: em_or:*					
29		22: em_ov:*					
30		23: em_pat:*					
31		24: em_ph:*					
32		25: em_ro:*					
33		26: em_sts:*					
34		27: em_un:*					
35		28: em_vt:*					
36		29: em_ntg_hum:*					
37		30: em_ntg_inv:*					
38		31: em_htg_other:*					
39		32: em_htg_inv:*					
40		33: em_htg_oinv:*					

## ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 30;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAACGACGGCCAGT 18  
 Db 1 TGTAACGACGGCCAGT 18

RESULT 2  
 AR007529  
 LOCUS AR007529  
 DEFINITION Sequence 2 from patent US 5750868.  
 ACCESSION AR007529  
 VERSION AR007529.1 GI:3967013  
 KEYWORDS Unknown  
 SOURCE Unknown  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)  
 AUTHORS Leibowitz,M.J. and Liu,Y.  
 TITLE Diagnostic probes for *pneumocystis carini*  
 JOURNAL Patent: US 576680-A 3 07-JUL-1998;  
 FEATURES Location/Qualifiers 1..18  
 source BASE COUNT 6 a 4 c 5 g 3 t  
 ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 30;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAACGACGGCCAGT 18  
 Db 1 TGTAACGACGGCCAGT 18

RESULT 5  
 AR022604  
 LOCUS AR022604  
 DEFINITION Sequence 2 from patent US 5792853.  
 ACCESSION AR022604  
 VERSION AR022604.1 GI:3976666  
 KEYWORDS Unknown  
 SOURCE Unknown  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)  
 AUTHORS Cigan,A.M. and Albertsen,M.C.  
 TITLE Reversible nuclear genetic system for male sterility in transgenic  
 JOURNAL plants  
 FEATURES Location/Qualifiers 1..18  
 source BASE COUNT 6 a 4 c 5 g 3 t  
 ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 30;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAACGACGGCCAGT 18  
 Db 1 TGTAACGACGGCCAGT 18

RESULT 3  
 AR012189  
 LOCUS AR012189  
 DEFINITION Sequence 2 from patent US 5763243.  
 ACCESSION AR012189  
 VERSION AR012189.1 GI:3970179  
 KEYWORDS Unknown  
 SOURCE Unknown  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)  
 AUTHORS Cigan,A.M. and Albertsen,M.C.  
 TITLE Reversible nuclear genetic system for male sterility in transgenic  
 JOURNAL plants  
 FEATURES Location/Qualifiers 1..18  
 source BASE COUNT 6 a 4 c 5 g 3 t  
 ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 30;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAACGACGGCCAGT 18  
 Db 1 TGTAACGACGGCCAGT 18

RESULT 6  
 AR023877  
 LOCUS AR023877  
 DEFINITION Sequence 2 from patent US 5795753.  
 ACCESSION AR023877  
 VERSION AR023877.1 GI:3977171  
 KEYWORDS Unknown  
 SOURCE Unknown  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Cigan,A.M. and Albertsen,M.C.  
 TITLE Reversible nuclear genetic system for male sterility in transgenic  
 Plants  
 JOURNAL Patent: US 5795753-A 2 18-AUG-1998;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 BASE COUNT 6 a 4 c 5 g 3 t  
 ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 30;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGAGGCCAGT 18  
 Db 1 TGTAAACGAGGCCAGT 18

RESULT 9  
 ARO30808  
 LOCUS ARO30808  
 DEFINITION Sequence 11 from patent US 5861378.  
 ACCESSION ARO30808  
 VERSION ARO30808.1 GI:5944022  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Iwanaga,S., Kawabata,S.-i. and Saito,T.  
 TITLE Horseshoe crab hemocyan polypeptides, and preparation and DNA  
 encoding thereof  
 JOURNAL Patent: US 5661378-A 11 19-JAN-1999;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 BASE COUNT 6 a 4 c 5 g 3 t  
 ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;  
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 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGAGGCCAGT 18  
 Db 1 TGTAAACGAGGCCAGT 18

RESULT 10  
 ARO36904  
 LOCUS ARO36904  
 DEFINITION Sequence 2 from patent US 5800996.  
 ACCESSION ARO36904  
 VERSION ARO36904.1 GI:5954760  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Lee,L.G., Spurgeon,S.L. and Rosenblum,B.  
 TITLE Energy transfer dyes with enhanced fluorescence  
 JOURNAL Patent: US 5800996-A 2 01-SEP-1998;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 BASE COUNT 6 a 4 c 5 g 3 t  
 ORIGIN

Query Match 100.0%; Score 18; DB 6; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 30;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGAGGCCAGT 18  
 Db 1 TGTAAACGAGGCCAGT 18

RESULT 8  
 ARO30639  
 LOCUS ARO30639  
 DEFINITION Sequence 1 from patent US 5861287.  
 ACCESSION ARO30639  
 VERSION ARO30639.1 GI:5943853  
 KEYWORDS Unknown.  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 18)  
 AUTHORS Metzker,M.L. and Gibbs,R.A.  
 TITLE Alternative dye-labeled primers for automated DNA sequencing  
 JOURNAL Patent: US 5861287-A 1 19-JAN-1999;  
 FEATURES Location/Qualifiers  
 source 1..18  
 /organism="unknown"  
 BASE COUNT 6 a 4 c 5 g 3 t  
 ORIGIN

DEFINITION	Sequence 3 from patent US 5807702.	FEATURES	Location/Qualifiers	
ACCESSION	AR038851	source	1..18	
VERSION	AR038851.1		/organism="unknown"	
SOURCE	Unknown.	BASE COUNT	6 a 4 c 5 g 3 t	
ORGANISM	Unclassified.	ORIGIN		
REFERENCE	1 (bases 1 to 18)	Query Match	100.0%; Score 18; DB 6; Length 18;	
AUTHORS	Mukerji,P., Thurmond,J.Marie., Hansson,L., Baxter,J.Harris, and Hards,R.George.	Best Local Similarity	100.0%; Pred. No. 30;	
TITLE	Method for expressing phosphorylated recombinant human beta-casein in a bacterial system	Matches	Mismatches 0; Indels 0; Gaps 0;	
JOURNAL	Patent: US 5807702-A 3 15-SEP-1998;	DEFINITION		
FEATURES	Location/Qualifiers	Accession AR038851		
source	1..18	VERSION	AR038851.1 GI:5980743	
BASE COUNT	6 a 4 c 5 g 3 t	KEYWORDS		
ORIGIN		SOURCE	Unknown.	
RESULT 12		ORGANISM	Unclassified.	
AR044721	Query Match	100.0%; Score 18; DB 6; Length 18;	REFERENCE 1 (bases 1 to 18)	
LOCUS	AR044721	Best Local Similarity	100.0%; Pred. No. 30;	
DEFINITION	Sequence 40 from patent US 5817515.	Matches	18 bp from patent US 5837478.	
ACCESSION	AR044721	Conservative	DNA	
VERSION	AR044721.1	0; Mismatches	linear	
SOURCE	GI:5966186	0; Indels	PAT 29-SEP-1999	
ORGANISM	Unknown.	FEATURES		
REFERENCE	1 (bases 1 to 18)	Accession AR055166		
AUTHORS	Gallatin,W.Michael. and Van der Vieren,M.	Version AR055166		
TITLE	Human B2 integrin alpha subunit antibodies	Method of identifying modulators of binding between and VCAM-1		
JOURNAL	Patent: US 5817515-A 40 17-NOV-1998;	Patent: US 5837478-A 40 17-NOV-1998;		
FEATURES	Location/Qualifiers	Source		
source	1..18	DEFINITION		
BASE COUNT	6 a 4 c 5 g 3 t	ACCESSION	AR055166	
ORIGIN		VERSION	AR055166.1 GI:5980743	
RESULT 13		KEYWORDS		
AR052368	Query Match	100.0%; Score 18; DB 6; Length 18;	SOURCE	Unknown.
LOCUS	AR052368	Best Local Similarity	100.0%; Pred. No. 30;	
DEFINITION	Sequence 40 from patent US 5831029.	Matches	18 bp from patent US 5837851.	
ACCESSION	AR052368	Conservative	DNA	
VERSION	AR052368.1	0; Mismatches	linear	
KEYWORDS	GI:5975732	0; Indels	PAT 29-SEP-1999	
SOURCE	Unknown.	FEATURES		
ORGANISM	Unclassified.	Accession AR059043		
REFERENCE	1 (bases 1 to 18)	Version AR059043		
AUTHORS	Cigan,A.M. and Albertson,M.C.	Method		
TITLE	DNA promoter 5126 and constructs useful in a reversible nuclear genetic system for male sterility in transgenic plants	Patent: US 5837851-A 2 17-Nov-1998;		
JOURNAL	Patent	Source		
FEATURES	Location/Qualifiers	DEFINITION		
source	1..18	ACCESSION	AR059043	
BASE COUNT	6 a 4 c 5 g 3 t	VERSION	AR059043.1 GI:5984620	
ORIGIN		KEYWORDS		
RESULT 14		SOURCE	Unknown.	
AR055166	Query Match	100.0%; Score 18; DB 6; Length 18;	ORGANISM	Unclassified.
LOCUS	AR055166	Best Local Similarity	100.0%; Pred. No. 30;	
DEFINITION	Sequence 40 from patent US 5837478.	Matches	18 bp from patent US 5837851.	
ACCESSION	AR055166	Conservative	DNA	
VERSION	AR055166.1	0; Mismatches	linear	
KEYWORDS	GI:5980743	0; Indels	PAT 29-SEP-1999	
SOURCE	Unknown.	FEATURES		
ORGANISM	Unclassified.	Accession AR059043		
REFERENCE	1 (bases 1 to 18)	Version AR059043		
AUTHORS	Gallatin,W.Michael. and Van der Vieren,M.	Method		
TITLE	Human beta 2 integrin alpha subunit	Patent: US 5831029-A 40 03-NOV-1998;		
JOURNAL	Patent	Source		
FEATURES	Location/Qualifiers	DEFINITION		
source	1..18	ACCESSION	AR059043	
BASE COUNT	6 a 4 c 5 g 3 t	VERSION	AR059043.1 GI:5984620	
ORIGIN		KEYWORDS		
RESULT 15		SOURCE	Unknown.	
AR059043	Query Match	100.0%; Score 18; DB 6; Length 18;	ORGANISM	Unclassified.
LOCUS	AR059043	Best Local Similarity	100.0%; Pred. No. 30;	
DEFINITION	Sequence 2 from patent US 5837851.	Matches	18 bp from patent US 5837851.	
ACCESSION	AR059043	Conservative	DNA	
VERSION	AR059043.1	0; Mismatches	linear	
KEYWORDS	GI:5984620	0; Indels	PAT 29-SEP-1999	
SOURCE	Unknown.	FEATURES		
ORGANISM	Unclassified.	Accession AR059043		
REFERENCE	1 (bases 1 to 18)	Version AR059043		
AUTHORS	Cigan,A.M. and Albertson,M.C.	Method		
TITLE	DNA promoter 5126 and constructs useful in a reversible nuclear genetic system for male sterility in transgenic plants	Patent: US 5837851-A 2 17-Nov-1998;		
JOURNAL	Patent	Source		
FEATURES	Location/Qualifiers	DEFINITION		
source	1..18	ACCESSION	AR059043	
BASE COUNT	6 a 4 c 5 g 3 t	VERSION	AR059043.1 GI:5984620	
ORIGIN		KEYWORDS		
RESULT 16		SOURCE	Unknown.	
AR059043	Query Match	100.0%; Score 18; DB 6; Length 18;	ORGANISM	Unclassified.
LOCUS	AR059043	Best Local Similarity	100.0%; Pred. No. 30;	
DEFINITION	Sequence 2 from patent US 5837851.	Matches	18 bp from patent US 5837851.	
ACCESSION	AR059043	Conservative	DNA	
VERSION	AR059043.1	0; Mismatches	linear	
KEYWORDS	GI:5984620	0; Indels	PAT 29-SEP-1999	
SOURCE	Unknown.	FEATURES		
ORGANISM	Unclassified.	Accession AR059043		
REFERENCE	1 (bases 1 to 18)	Version AR059043		
AUTHORS	Gallatin,W.Michael. and Van der Vieren,M.	Method		
TITLE	Human beta 2 integrin alpha subunit	Patent: US 5831029-A 40 03-NOV-1998;		
JOURNAL	Patent	Source		
FEATURES	Location/Qualifiers	DEFINITION		
source	1..18	ACCESSION	AR059043	
BASE COUNT	6 a 4 c 5 g 3 t	VERSION	AR059043.1 GI:5984620	
ORIGIN		KEYWORDS		

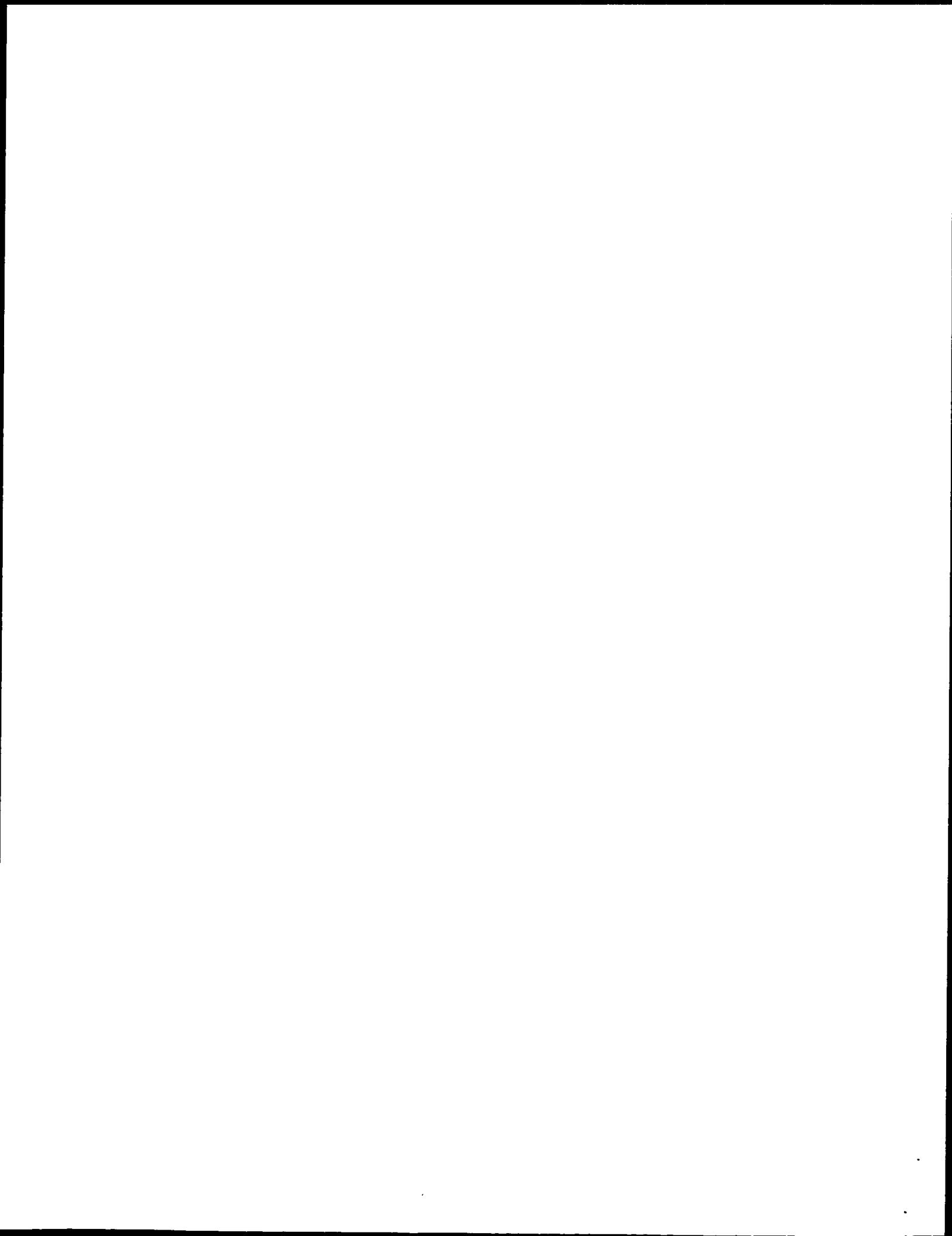
Thu Aug 1 12:08:43 2002

us-10-014-743-2.rge

Page 5

Db 1 |||||||ACGAGGCCAGT 18

Search completed: August 1, 2002, 09:29:50  
Job time: 6596 sec



GenCore version 4.5  
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## Om nucleic - nucleic search, using sw model

Run on: August 1, 2002, 09:37:26 ; Search time 365.16 Seconds  
(without alignments)  
84.633 Million cell updates/sec

Title: US-10-014-743-2  
Perfect score: 18  
Sequence: 1 TGCTAAAAACGACGGCCAGT 18

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 85845721 residues

Total number of hits satisfying chosen parameters:

3472872

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

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3: /SIDS1/gcdata/geneseq/geneseq-emb1/NA1982.DAT:  
4: /SIDS1/gcdata/geneseq/geneseq-emb1/NA1983.DAT:  
5: /SIDS1/gcdata/geneseq/geneseq-emb1/NA1984.DAT:  
6: /SIDS1/gcdata/geneseq/geneseq-emb1/NA1985.DAT:  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
```

## SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	18	100.0	18 14 AAC39606	Fluorescence detection
2	18	100.0	18 16 AAT02863	Fungus-derived 18S rRNA gene exon 16
3	18	100.0	18 16 AAT0924	M13 primer. Synthesis
4	18	100.0	18 16 AAC91747	Primer RO-4 for biotinylation
5	18	100.0	18 17 AAT02669	Primer for amplification of defensin coding sequence
6	18	100.0	18 17 AAT5004	5'-Terminal amine
7	18	100.0	18 17 AAT21188	Tagged M13 sequence
8	18	100.0	18 18 AAT06529	
9	18	100.0	18 18 AAC06702	

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## OS

JP05111399-A.

PN XX

PD XX

PR XX

XX

(HITA ) HITACHI LTD.

PA XX

DR XX

WPI; 1993-184819/23.

Fluorescence detection for nucleic acid sample - comprises binding labelled oligo-nucleotide(s) to sample DNA, preparing elongation chain by enzyme reaction, PCR; amplify; primer: fluorescence; label; ss, Synthetic.

91JP-0274264.

91JP-1991;

91JP-0274264.

RESULT 1

AAQ39606

ID AAQ39606 standard; DNA; 18 BP.

XX XX

AAQ39606;

AC AC

XX XX

07-OCT-1993 (first entry)

DT DT

XX XX

Fluorescence detection primer KM1.

DE DE

XX XX

Polymerase chain reaction; PCR; amplify; primer: fluorescence; detection; label; ss,

KW KW

detection; label; ss,

XX XX

Synthetic.

OS OS

Fluorescence detection

Fungus-derived 18S rRNA gene exon 16

M13 primer. Synthesis

Primer RO-4 for biotinylation

Primer for amplification of defensin coding sequence

Tagged M13 sequence

PS Disclosure; Page 6; 7pp; Japanese.  
 XX  
 CC The sequences given in AAQ39604-09 are primers which were used in a  
 CC detection method to detect nucleic acid molecules. The primers are  
 CC fluorescently labelled. They are bound to a target nucleic acid  
 CC sample and elongated by PCR. The fluorescence of the amplified  
 CC sample is detected. This method can be used for the accurate  
 CC detection of nucleic acid sequences.  
 XX  
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;  
 RESULT 3  
 AAQ90924  
 ID AAQ90924 standard; DNA; 18 BP.  
 XX  
 AC AAQ90924;  
 XX  
 DT 05-MAR-1996 (first entry)  
 XX  
 DE hMLH1 gene exon 16 second stage amplification primer N-19269.  
 XX  
 KW hMLH1; MutL homologue; cancer diagnosis; mismatch repair; tumour;  
 KW susceptibility; mutation detection; exon 16; primer N-19269;  
 KW second stage amplification; ss.  
 XX  
 OS Synthetic.  
 XX  
 WO9516793-A1.  
 PN  
 PD 22-JUN-1995.  
 XX  
 PF 16-DEC-1994; 94WO-US14746.  
 XX  
 PR 09-DEC-1994; 94US-0352902.  
 PR 17-DEC-1993; 93US-0168877.  
 PR 08-MAR-1994; 94US 0209321.  
 XX  
 PA (DAND ) DANA FARBER CANCER INST INC.  
 PA (UYOR-) UNIV OREGON HEALTH SCI..  
 PT Baker SM, Bollag RJ, Bronner CE, Kolodner RD, Liskay RM,  
 XX  
 DR WPI: 1995-231583/30.  
 XX  
 PT Determin of a mutation in a mutL homologue or gene prod. in a tissue  
 PT - used to diagnose cancer susceptibility, and to identify and  
 PT classify a DNA mismatch-repair-defective tumour  
 PS Disclosure; Fig 4B-4: 168pp; English.  
 XX  
 CC AAQ90924 and AAQ90925 are a primer pair for the 2nd stage amplification  
 CC of the hMLH1 (a MutL homologue) gene exon 16. A mutation in an  
 CC analogous segment of a hMLH1 or hMS1 nucleic acid isolated from a  
 CC subject, can be detected by comparing it with the above gene  
 CC fragment. This method can be used to diagnose cancer susceptibility,  
 CC or to identify and classify a DNA mismatch-repair defective tumour.  
 XX  
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;  
 Query Match 100.0%; Score 18; DB 16; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0; Indels 0; Gaps 0;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 PS Claim 2: Page 2; 8pp; Japanese.  
 XX  
 CC AAQ2855-T02860 are amplification primers for DNA coding for  
 CC fungus-derived 18S rRNA. These primers may be bound at the 5' end  
 CC to the 3' end of a sequencing primer (AAU02861-T02863). The  
 CC resulting oligonucleotide primers comprising amplification and  
 CC sequencing portions (AAU02864-T02869). These primers are useful for  
 CC the determination of the base sequences of fungi.  
 XX  
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;  
 RESULT 4  
 AAQ91747  
 ID AAQ91747 standard; DNA; 18 BP.  
 XX  
 AC AAQ91747;  
 XX  
 DT 28-DEC-1995 (first entry)  
 XX  
 DE M13 primer.  
 KW Beta-2 integrin alpha-2 subunit; antiinflammatory; arteriosclerosis;  
 KW inflammatory bowel disease; asthma; polymerase chain reaction;  
 KW PCR; primer; ss.  
 XX  
 OS Synthetic.

PT	beta-casein in a bacterial system - encodes an exogenous protein
PT	and enzyme which modifies the protein
XX	
PS	Example 5; Page 28; 58pp; English.
XX	To create a single construct designed for secretion of phosphorylated beta-casein, a sequence encoding a bacterial cell, the beta-casein gene, and a sequence which directs protein transport to the periplasm. PCR was performed using the clone resulting from these procedures as the DNA and primers AAT62669-10. Novel plasmids of the invention comprising a sequence encoding an exogenous protein, especially human beta-casein, and a sequence encoding an enzyme which can modify the exogenous protein (e.g. a human kinase capable of phosphorylating recombinant beta-casein in a bacterial system). The plasmids are to produce a modified recombinant protein in a host cell, particularly a caseins cell receptor proteins, fatty acylated proteins, mammalian muscle proteins, the gag polyproteins of retroviruses, or mammalian proteins targeted by retroviral src kinases. The method can be used to produce a recombinant human protein useful to inhibit attachment of Haemophilus influenzae to human cells, which can prevent and treat otitis media in children.
XX	
SQ	Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;
SO	Query Match 100.0%; Score 18; DB 17; Length 18; Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0; Indels 0; Other
XX	Matches 18; Conservative 0; Mismatches 0; Indels 0; Other
AC	AAT35004; AC
AC	AAT35004; AC
XX	28-NOV-1996 (first entry)
DE	Primer for amplifying 5126f anther specific promoter.
XX	
KW	Plant; sterile; sterility; male; reversible; anther; promoter; pollen formation; ss.
XX	
OS	Synthetic.
XX	W09617945-A1.
PN	W09617945-A1.
XX	
PD	13-JUN-1996.
XX	
PR	07-DEC-1995; 95WO-US15229.
XX	
PR	07-JUN-1995; 95US-0474556.
PR	08-DEC-1994; 94US-0351899.
XX	
PA	(PION-) PIONEER HI-BRED INT INC.
XX	
PI	Albertson MC, Cignan AM;
XX	
DR	WPI; 1996-287189/29.
XX	
XX	Prod'n of reversible male sterility in a plant - by transformation with a construct with regulatory elements and DNA which inhibit pollen formation of function
PT	
PT	
XX	
PS	Example 1; Page 33; 94pp; English.
XX	
CC	A construct comprising a DNA sequence encoding a gene product which inhibits pollen formation or function, an operator controlling the

CC expression functionally linked to a promoter specific to cells  
 CC critical to pollen formation can be used in the production of male  
 CC sterile plants when inserted into plants and expressed. When these  
 CC male sterile plants are then crossed with pollen derived from a male  
 CC fertility line, make sterile hybrid plants are produced. These  
 CC plants can then be made sterile or fertile depending on whether the  
 CC incorporated construct is expressed. The method produces reversible  
 CC male sterility in a plant. Two primers (AAT5004, AAT5005) were used  
 CC to amplify a partial 5126 promoter cDNA clone which was used to  
 CC identify a full length clone from a cDNA library.  
 XX Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 17; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 3.4;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX QY 1 TGTAACGAGCGCCAGT 18  
 DB 1 tgtaaacgacgacgcgt 18

RESULT 7  
 AAT27188  
 ID AAT27188 standard; DNA; 18 BP.  
 XX AC AAT27188:  
 XX DT 20-NOV-1996 (first entry)  
 XX DE Defensin coding sequence primer #1.  
 XX KW Structural analogue; defensin; antibacterial; helmet crab;  
 KW intramucocyte fine granule fraction; gram positive; gram negative;  
 KW fungi; germicide; preservative; wound healing; ss.  
 OS Synthetic.  
 XX PN JP08092286-A.

XX PD 09-APR-1996.  
 XX PF 01-SEP-1994; 94JP-0232025.  
 XX PR 22-JUL-1994; 94JP-0191050.  
 XX PA (SEIKAGAKU KOGYO CO LTD.  
 XX DR WPI; 1996-236056/24.

PS Example 2; Page 14; 17pp; Japanese.

XX The sequences given in AAT27186-90 are a probe and primers which were  
 CC used in the isolation of the full length defensin coding sequence.  
 CC Defensin and its analogues act as antibacterial polypeptides. Peptide  
 CC analogues are based on an antibacterial peptide isolated from the  
 CC helmet crab intramucocyte fine granule fraction. They show anti-  
 CC bacterial activity against gram positive and gram negative microbes  
 CC and fungi. These polypeptides are useful as antibacterial agents,  
 CC germicides or as a preservative effective against various microbes.  
 CC They are also thought to have wound healing properties. See also  
 CC AAT50130-34.

Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;  
 XX Query Match 100.0%; Score 18; DB 17; Length 18;

Best Local Similarity 100.0%; Pred. No. 3.4;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAACGAGCGCCAGT 18  
 DB 1 tgtaaacgacgacgcgt 18

RESULT 8  
 AAT86529  
 ID AAT86529 standard; DNA; 18 BP.  
 XX AC AAT86529:

XX DT 05-JUN-1998 (first entry)  
 XX DE 5'-terminal amine linked oligonucleotide.  
 XX KW Non-fluorescent label; ligand pair; detection; tag; potentiometry;  
 KW cleavage; primer; ss.  
 OS Synthetic.  
 XX FH Key Location/Qualifiers  
 FT modified\_base 1 /\*tag= ^a  
 FT /note= "5'-hexylamine-thymine"  
 XX PN WO9727327-A2.  
 XX PD 31-JUL-1997.  
 XX PF 23-JAN-1997; 97W0-US01070.  
 XX PR 21-MAR-1996; 96US-0015402.  
 PR 23-JAN-1996; 96US-0010436.  
 XX PA (DARWIN MOLECULAR CORP.  
 PI Howbert JJ, Mulligan JT, Tabone JC, Van Ness J;  
 DR WPI; 1997-39711/36.  
 XX PT Detection of ligand pair binding and analysis of gene expression -  
 PT using tags which are detectable by non-fluorescent spectrometry or  
 PT potentiometry  
 XX PS Example 4; Page 99; 14pp; English.

This oligonucleotide was used in the preparation of tagged M13 sequence  
 CC primers. The invention relates to a method for detecting the binding of  
 CC a first member to a second member of a ligand pair. It comprises: (a)  
 CC combining a set of first tagged members with a biological sample (which  
 CC may contain one or more second members) for a time sufficient to permit  
 CC binding of a first member to a second member, where the tag is  
 CC correlative with a particular first member and detectable by non-  
 CC fluorescent spectrometry or potentiometry; (b) separating bound first  
 CC and second members from unbound members; (c) cleaving the tag from the  
 CC tagged first member; and (d) detecting the tag by non-fluorescent  
 CC spectrometry or potentiometry, and thus detecting the binding of the  
 CC first member to the second member. Analysing the pattern of gene  
 CC expression from a selected biological sample comprises: (a) exposing  
 CC nucleic acids from a biological sample; (b) combining the exposed  
 CC nucleic acids with one or more tagged nucleic acid probes for a time  
 CC sufficient for the probes to hybridise to the nucleic acids, where the  
 CC tag is correlative with a particular nucleic acid probe and detectable  
 CC by non-fluorescent spectrometry or potentiometry; (c) separating  
 CC hybridised probes from unhybridised probes; (d) cleaving the tag from  
 CC the tagged fragment; and (e) detecting the tag by non-fluorescent  
 CC spectrometry or potentiometry, and thus determining the pattern of gene  
 CC expression of the sample. The methods may be used in a wide variety of  
 CC assays, including nucleic acid assays (e.g. for diagnostic purposes),  
 CC protein-based assays, gene expression analysis, detection of  
 CC microorganisms, detection of specific sequences in nucleic acid, or  
 CC detection of mutations.

xx SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

xx Query Match 100.0%; Score 18; DB 18; Length 18;  
Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0;  
Matches 18; Conservative 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGAGGCCAGT 18  
1 ||||||| 1||| 1||| 1|||  
Db 1 tgtaaacgacgcgt 18

RESULT 9  
AAV06702  
ID AAV06702 standard; DNA; 18 BP.  
XX AC AAV06702;  
XX DT 21-MAY-1998 (first entry)  
XX DE Tagged M13 sequence primer for detection of nucleic acid molecules.  
XX KW Nucleic acid analysis; tag; linker; M13 sequence primer; PCR;  
KW non-fluorescent spectrometry; potentiometry; detection; ss.  
XX OS Synthetic.  
XX FH Key modified\_base Location/Qualifiers  
FT FT 1 /\*tag= a  
FT FT /note= "5'-hexylamine-Thymine"  
XX PN WO9727325-A2.  
XX PD 31-JUL-1997.  
XX PF 23-JAN-1997; 97WO-US01046.  
XX PR 04-JUN-1996; 96US-00-0487.  
XX PR 23-JAN-1996; 96US-0014536.  
XX PA (DARW-) DARWIN MOLECULAR CORP.  
XX PI Howbert JJ, Mulligan JT, Tabone JC, Van Ness J;  
XX DR WPI; 1997-393715/36.

xx PT Detection and identification of nucleic acid molecules - using tags which may be detected by non-fluorescent spectrometry or potentiometry  
xx PS Example 4; Page 94; 129pp; English.

xx This sequence represents an M13 sequence primer. The invention relates to a method for determining the identity of a nucleic acid (NA) molecule which comprises: (a) generating tagged NA molecules from one or more selected tagged NA molecules, where a tag is correlative with a particular NA fragment and detectable by non-fluorescent spectrometry or potentiometry; (b) separating the tagged molecules by size; (c) cleaving the tag from the tagged molecule; and (d) detecting the tag by non-fluorescent spectrometry or potentiometry, and thus determining the identity of the NA molecule. Detecting a selected NA molecule comprises: (a) combining a tagged NA probe with target NA molecules for a time sufficient to permit hybridisation of the probe to a complementary selected target NA sequence, where the tagged NA probe is detectable by non-fluorescent spectrometry or potentiometry; (b) altering the size of the hybridised tagged probes, the size of unhybridised probes or target molecules, or the size of the probe:target hybrids; (c) separating the tagged probes by size; (d) cleaving the tag from the tagged probe; and (e) detecting the tag by non-fluorescent spectrometry or potentiometry, and thus detecting the selected NA molecule.

xx Query Match 100.0%; Score 18; DB 18; Length 18;  
Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0;  
Matches 18; Conservative 0; Indels 0; Gaps 0;

Qy 1 TGTAACGAGGCCAGT 18  
1 ||||||| 1||| 1||| 1|||  
Db 1 tgtaaacgacgcgt 18

RESULT 10  
AAV06703  
ID AAV06703 standard; DNA; 18 BP.  
XX AC AAV06703;  
XX DT 22-MAY-1998 (first entry)  
XX DE 5'-terminal amine linked oligonucleotide DMO 767.  
XX KW DNA sequencing; tag; mass spectrometry; non-fluorescent spectrometry; ss.  
XX OS Synthetic.  
XX FH Key modified\_base Location/Qualifiers  
FT FT 1 /\*tag= a  
FT FT /note= "5'-hexylamine-Thymine"  
XX PN WO9727331-A2.  
XX PD 31-JUL-1997.  
XX PF 23-JAN-1997; 97WO-US01304.  
XX PR 23-JAN-1996; 96US-0589260.  
XX PR 23-JAN-1996; 96US-0010462.  
XX PA (DARW-) DARWIN MOLECULAR CORP.  
XX PI Howbert JJ, Mulligan JT, Tabone JC, Van Ness J;  
XX DR WPI; 1997-393715/36.

xx PT Determination of nucleic acid sequences - using tags which are detectable by non-fluorescent spectrometry or potentiometry  
xx PS Example 5; Page 111; 182pp; English.

xx This sequence represents an oligonucleotide shown in the specification. The invention relates to compounds and a method for determining the sequence of a nucleic acid molecule. The method comprises: (a) generating the target nucleic acid fragments which are complementary to a selected target nucleic acid, where a tag is correlative with a particular nucleotide and detectable by non-fluorescent spectrometry or potentiometry; (b) separating the tagged fragments by sequential length; (c) cleaving the tags from the tagged fragments; and (d) detecting the tags by non-fluorescent spectrometry or potentiometry, and from this determining the sequence. The methods may be used e.g. for determining the sequences of nucleic acid molecules. They may be used for determination of multiple nucleic acid sequences simultaneously. The methods allow sequencing to be performed with enhanced speed and sensitivity.

xx Query Match 100.0%; Score 18; DB 18; Length 18;  
Best Local Similarity 100.0%; Pred. No. 3.4; Mismatches 0;  
Matches 18; Conservative 0; Indels 0; Gaps 0;

Qy 1 TGTAACGACGGCCAGT 18  
 |||||||1111111111111111  
 Db 1 tgtaaacgacggccagt 18

RESULT 11  
 AAV12872 standard; DNA; 18 BP.  
 ID AAV04321 standard; DNA; 18 BP.  
 XX  
 AC AAV04321;  
 AC AAV04321;  
 DT 20-APR-1998 (first entry)  
 XX  
 DE Primer used in preparation of osteoprotegerin products.  
 XX  
 KW Osteoprotegerin; antibody; diagnosis; affinity purification;  
 KW recombinant production; transgenic animal; treatment; prevention;  
 KW antisense oligonucleotide; probe; detection; screening;  
 KW bone disease; osteoporosis; Paget's disease; hypercalcemia;  
 KW hyperparathyroidism; rheumatoid arthritis; osteomyelitis;  
 KW osteolytic metastases; periodontal bone loss; bone necrosis;  
 KW osteopenia; PCR primer; ss.  
 OS Synthetic.  
 PH  
 FT PN DE19651610-A1.  
 FT PR 26-JUN-1997.  
 FT PD 20-DEC-1996; 96DE-1054610.  
 XX  
 PN EP05190-A2.  
 XX  
 PD 05-NOV-1997.  
 XX  
 PF 02-MAY-1997; 97EP-0303039.  
 XX  
 PR 04-OCT-1996; 96US-0725462.  
 PR 03-MAY-1996; 96US-062330.  
 PA (PEKE ) PERKIN-ELMER CORP.  
 PI Lee LG, Rosenblum B, Spurgeon SL;  
 DR WPI: 1997-52051/49.  
 XX  
 PT Fluorescent energy transfer dyes - useful for labelling  
 PT dideoxynucleotides, oligonucleotides, etc.  
 PS Example 5: Page 55; 79pp; English.  
 XX  
 CC This sequence represents a primer for identifying the M13 sequence shown  
 CC in AAV12872. This sequence is labelled with a dye of the invention. The  
 CC dye is an energy transfer dye of formula D-R21-Z1-CO-R22-R28-A (1),  
 CC where: D is a donor dye that absorbs light at a first wavelength and  
 CC emits excitation energy from D and fluoresces at a second wavelength in  
 CC response; Z1 = NH<sub>2</sub>, S or O; R21 = 1-5C alkylene; R22 = an alkene, diene  
 CC or alkyne group, an unsaturated 5- or 6-membered ring or a fused ring  
 CC structure; R28 = a group which includes a functionality to attach the  
 CC linker to the acceptor dye R28 is especially R29-Z2-CO, where R29 =  
 CC 1-5C alkylene and Z2 = NH<sub>2</sub>, S or O. The dyes are used for labelling  
 CC nucleosides, nucleoside mono-, di- and triphosphates, oligonucleotides  
 CC and oligonucleotide analogues, especially for labelling oligonucleotide  
 CC primers or dideoxynucleotides used for nucleic acid sequencing. The dyes  
 CC give greater fluorescence intensities than the acceptor dyes alone.  
 Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match Score 18; DB 18; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 3.4;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGACGGCCAGT 18  
 |||||||1111111111111111  
 Db 1 tgtaaacgacggccagt 18

RESULT 13  
 AAT89488 standard; DNA; 18 BP.  
 ID AAT89488  
 XX



XX  
 PD 27-MAR-1997.  
 XX  
 PF 12-AUG-1996; 96NO-US1134.  
 XX  
 PR 20-SEP-1995; 95US-0531132.  
 XX  
 PA (RECC ) UNIV CALIFORNIA.  
 XX  
 PI Glazer AN, Ju J, Mathies RA;  
 XX  
 DR 1997-202806/18.  
 XX  
 PT New compounds comprising an energy donor component and an acceptor component - are useful as labels for identifying different nucleic acid sequences in electrophoresis

XX  
 PS Example; Page 9; 22pp; English.

XX  
 CC A novel compound comprises an energy donor component (EDC) and an acceptor component (AC), which absorbs energy transferred by the EDC, linked by a backbone comprising sugar phosphate ester monomer linkages with the 1-hydroxyl group being etherified or replaced by a hydrogen. The present sequence, a typical energy transfer fluorescent dye tagged oligonucleotide, was synthesised with CC donor-acceptor fluorophore pairs separated by six CC '1',2'-dideoxyribose phosphates. The compound can be used as a label CC separations, and may be prepared using conventional polynucleotide CC synthetic techniques. When a family of the compounds share a common CC EDC and spacers, but vary as to the AC, they can be excited at the same CC wavelength, but exhibit widely spaced emission wavelengths.  
 XX  
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

	Query Match	Match	Score	DB	Length
Best Local Matches	100.0%	18	18	18	18
Matches	100.0%	Pred. No.	3.4;		
		Mismatches			
Qy	1 TGTAACGCGGGCACT	0;			
Db	1 tgtaaacgacggccagt	18			

Search completed: August 1, 2002, 09:37:28  
 Job time: 6764 sec

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	18	1	US-08-045-758B-1
2	18	100.0	18	1	US-08-086-964-725-9
3	18	100.0	18	2	US-08-554-137-3
4	18	100.0	18	2	US-09-046-203-2
5	18	100.0	18	11	US-09-018-170-11
6	18	100.0	18	2	US-08-948-364-1
7	18	100.0	18	2	US-08-060-36-9
8	18	100.0	18	2	US-08-715-461-1
9	18	100.0	18	2	US-08-815-448-1
10	18	100.0	18	2	US-08-890-98-95
11	18	100.0	18	3	US-08-589-93-70
12	18	100.0	18	3	US-08-974-022-10
13	18	100.0	18	3	US-08-890-97-74
14	18	100.0	18	3	US-08-147-550-114
15	18	100.0	18	3	US-09-032-894-85
16	18	100.0	18	3	US-09-074-710-20
17	18	100.0	18	3	US-09-174-437-28
18	100.0	18	3	US-08-045-758B-1	Query Match

GenCore version 4.5  
Copyright (C) 1993 - 2000 Compugen Ltd.  
  
OM nucleic - nucleic search, using sw model  
Run on: August 1, 2002, 09:30:47 ; Search time 87.24 Seconds  
(without alignments)  
50.681 Million cell updates/sec  
  
Title: US-10-014-743-2  
Perfect score: 18  
Sequence: 1 TGTAAACGACGGCCAGT 18  
  
Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0  
  
Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_NA:  
1: /cgn2\_6/ptodata/1/ina/5A\_COMBO.seq:  
2: /cgn2\_6/ptodata/1/ina/5B\_COMBO.seq:  
3: /cgn2\_6/ptodata/1/ina/6A\_COMBO.seq:  
4: /cgn2\_6/ptodata/1/ina/6B\_COMBO.seq:  
5: /cgn2\_6/ptodata/1/ina/PCITS\_COMBO.seq:  
6: /cgn2\_6/ptodata/1/ina/Backfile1.seq:  
  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	18	1	US-08-045-758B-1
2	18	100.0	18	1	US-08-286-889-40
3	18	100.0	18	1	US-08-494-16-1
4	18	100.0	18	1	US-08-471-601-2
5	18	100.0	18	1	US-08-474-556-2
6	18	100.0	18	1	US-08-554-642-3
7	18	100.0	18	1	US-08-495-618-40
8	18	100.0	18	1	US-08-351-899-2
9	18	100.0	18	1	US-08-479-382-2
10	18	100.0	18	1	US-08-362-552-40
11	18	100.0	18	1	US-08-305-509-3
12	18	100.0	18	1	US-08-470-334-2
13	18	100.0	18	1	US-08-479-383-2
14	18	100.0	18	1	US-08-512-681-26
15	18	100.0	18	1	US-08-726-452B-2
16	18	100.0	18	1	US-08-554-135-3
17	18	100.0	18	1	US-08-605-672-40
18	18	100.0	18	2	US-08-482-29A-40
19	18	100.0	18	2	US-08-043-363-40
20	18	100.0	18	2	US-08-479-041-2
21	18	100.0	18	2	US-08-491-690A-3
22	18	100.0	18	2	US-08-710-330-7
23	18	100.0	18	2	US-08-540-228-1
24	18	100.0	18	2	US-08-505-617-11
25	18	100.0	18	2	US-08-642-330-2
26	18	100.0	18	2	US-08-412-871C-32
27	18	100.0	18	2	US-08-751-189-9

## ALIGNMENTS

RESULT<sup>1</sup>  
US-08-045-758B-1  
; Sequence 1, Application US/08045758B  
; Patent No. 551663  
GENERAL INFORMATION:  
; APPLICANT: Kang, Hee Choi  
; HAUGLAND, Richard P.  
; TITLE OF INVENTION: Long Wavelength Chemically Reactive Dipyrrometheneboron  
; TITLE OF COMBINATION:  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Molecular Probes, Inc.  
; STREET: 4849 Pitchford Avenue  
; CITY: Eugene  
; STATE: Oregon  
; COUNTRY: USA  
; ZIP: 97402  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch  
; COMPUTER: IBM  
; OPERATING SYSTEM: MS-DOS 6.0  
; SOFTWARE: WordPerfect 6.0  
CURRENT APPLICATION DATA:  
; COMPUTER NUMBER: US/08/045-758B  
; OPERATING NUMBER: 04/08/93  
; FILING DATE: 04/08/93  
; CLASSIFICATION: 530  
PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 07/786,767  
; FILING DATE: 11/01/91  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Helfenstein, Allegra, J.  
; REGISTRATION NUMBER: 34-179  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (503) 465-8300  
; TELEFAX: (503) 344-6504  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 bases  
TYPE: Nucleic Acid  
STRANDEDNESS: Single  
TOPOLOGY: Linear  
MOLECULE TYPE: Other nucleic acid  
DESCRIPTION: A 5'-amino-derivatized oligonucleotide prepared by automated solid phase synthesis.  
HYPOTHETICAL: no  
ANTI-SENSE: no  
US-08-045-758B-1

Best Local Similarity 100.0%; Pred. No. 0.38;  
 Matches 18; Conservative 0; Mismatches 0;  
 Indels 0; Gaps 0;

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: FOLBRIGHT & JAWORSKI L.L.P.  
 STREET: 1301 MCKINNEY, SUITE 5100  
 CITY: HOUSTON  
 STATE: TEXAS  
 COUNTRY: USA  
 ZIP: 77010

RESULT 2  
 US-08-286-889-40  
 Sequence 40, Application US/08286889

Patent No. 5470953

GENERAL INFORMATION:

APPLICANT: Gallatin, W. Mich

APPLICANT: Van der Vieren, Monica Human

TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit

NUMBER OF SEQUENCES: 51

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

STREET: 233 South Wacker Drive, 6300 Sear Tower

CITY: Chicago

STATE: Illinois

COUNTRY: United States

ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/286,889

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/173,497

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Williams Jr., Joseph A.

REGISTRATION NUMBER: B38,659

REFERENCE/DOCKET NUMBER: 27866/32168

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-474-6300

TELEFAX: 312-474-0448

TELELEX: 25-3856

SEQUENCE FOR SEQ ID NO: 40:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: desc = "oligonucleotide"

HYPOTHETICAL: YES

POSITION IN GENOME:

UNITS: 18 bp

US-08-494-216-1

Query Match 3  
 Best Local Similarity 100.0%; Score 18; DB 1; Length 18;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Foley & Lardner  
 STREET: 3000 K Street, N.W., Suite 500  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: USA  
 ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC Compatible

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/471,601

FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:

RESULT 3  
 US-08-494-216-1  
 Sequence 1, Application US/08494216  
 Patent No. 5614386  
 GENERAL INFORMATION:  
 APPLICANT: METZKER, MICHAEL L.  
 APPLICANT: GIBBS, RICHARD A.  
 TITLE OF INVENTION: ALTERNATIVE DYE-LABELED PRIMERS FOR AUTOMATED DNA SEQUENCING  
 NUMBER OF SEQUENCES: 2

GENERAL INFORMATION:  
 APPLICANT: CIGAN, Andrew M.  
 APPLICANT: ALBERTSEN, Marc C.  
 TITLE OF INVENTION: Reversible Nuclear Genetic System For Male Sterility In Transgenic Plants  
 NUMBER OF SEQUENCES: 23  
 CORRESPONDENCE ADDRESS:  
 ADDRESSER: Foley & Lardner  
 STREET: 3000 K Street, N.W., Suite 500  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: USA  
 ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/471,601

FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/351,899  
 FILING DATE: 08-DEC-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: BENTY, Stephen A.  
 REGISTRATION NUMBER: 29,768  
 REFERENCE/DOCKET NUMBER: 33229/341/PIHI  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202)672-5300  
 TELEFAX: (202)672-5399  
 TELEX: 904136  
 SEQUENCE FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 18 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-471-601-2

RESULT 5  
 Query Match 100.0%; Score 18; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 0.38; Mismatches 0; Indels 0; Gaps 0;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAACGAGGGCAGT 18  
 Db 1 TGTAACGAGGGCAGT 18

RESULT 6  
 Query Match 100.0%; Score 18; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 0.38; Mismatches 0; Indels 0; Gaps 0;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAACGAGGGCAGT 18  
 Db 1 TGTAACGAGGGCAGT 18

RESULT 6  
 US-08-554-642-3  
 Sequence 3, Application US/08554642  
 Patent No. 5710044  
 GENERAL INFORMATION:  
 APPLICANT: Mukerji, P.  
 APPLICANT: Thurmond, J.  
 APPLICANT: Hansson, L.  
 APPLICANT: Baxter, J.  
 APPLICANT: Hards, R.  
 TITLE OF INVENTION: A Plasmid For Expressing Modified Recombinant Proteins in a Bacterial

TITLE OF INVENTION: Recombinant Proteins in a Bacterial

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Donald O. Nickey  
 ADDRESS: ROSS Products Division  
 STREET: Abbott Laboratories  
 CITY: Columbus  
 STATE: Ohio  
 COUNTY: United States of America  
 ZIP: 43215

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: MS-DOS Version 6.21  
 SOFTWARE: Wordperfect Version 6.0a  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/554,642  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/395,239  
 FILING DATE: 27-FEB-1995  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (614) 624-7080  
 TELEFAX: (614) 624-3074  
 TELEX: No 5710044e  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 18 base pairs  
 TYPE: Nucleic acid  
 STRANDEDNESS: Single  
 TOPOLOGY: Linear  
 MOLECULE TYPE: DNA  
 US-08-554-642-3

Query Match 100.0%; Score 18; DB 1; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 0.38; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAACGAGGGCAGT 18  
 Db 1 TGTAACGAGGGCAGT 18

RESULT 7  
 US-08-485-618-40  
 Sequence 40, Application US/08485618  
 Patent No. 5728533  
 GENERAL INFORMATION:  
 APPLICANT: Gallatin, W. Michael

US-08-474-556-2

APPLICANT: Van der Vieren, Monica  
 TITLE OF INVENTION: No. 5728533el Human 2 Integrin Alpha Subunit  
 NUMBER OF SEQUENCES: 103

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
 STREET: 233 South Wacker Drive, 6300 Sear Tower  
 CITY: Chicago  
 STATE: Illinois  
 COUNTRY: United States  
 ZIP: 60606-6402

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/485,618  
 FILING DATE: 23-DEC-1993  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/173,497  
 FILING DATE: 23-DEC-1993  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/286,839  
 FILING DATE: 5-AUG-1994  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/362,652  
 FILING DATE: 21-DEC-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Williams Jr., Joseph A.  
 REGISTRATION NUMBER: 38,659  
 REFERENCE/DOCKET NUMBER: 27866-32797  
 TELEPHONE: 312-474-6300  
 TELEFAX: 312-474-0448  
 TELEX: 25-3556

INFORMATION FOR SEQ ID NO: 40:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 18 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA  
 US-08-485-618-40

Query Match 100 08; Score 18; DB 1; Length 18;  
 Best Local Similarity 100 08; Pred. No. 0 38; Mismatches 0; Indels 0; Gaps 0;

RESULT 8  
 US-08-351-899-2  
 Sequence 2, Application US/08351899  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CIGAN, Andrew M.  
 ; APPLICANT: ALBERTSEN, Marc C.  
 ; TITLE OF INVENTION: Reversible Nuclear Genetic System For  
 ; TITLE OF INVENTION: Male Sterility In Transgenic Plants  
 ; NUMBER OF SEQUENCES: 21  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Foley & Lardner  
 ; STREET: 3000 K Street, N.W., Suite 500  
 ; CITY: Washington  
 ; STATE: D.C.  
 ; COUNTRY: USA  
 ; ZIP: 20007-5109  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/479,382  
 FILING DATE: 07-JUN-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/351,899  
 FILING DATE: 08-DEC-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: BENT, Stephen A.  
 REGISTRATION NUMBER: 29,768  
 REFERENCE/DOCKET NUMBER: 33229/339/PTHI  
 TELEPHONE: (202)672-5399  
 TELEX: 904136

INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 18 base pairs

RESULT 11  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-479-382-2

Query Match Score 18; DB 1; Length 18;  
 Best Local Similarity 100.0%; Prod. No. 0.38;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAACAGCAGGCCAGT 18  
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 Db 1 TGTAACAGCAGGCCAGT 18

RESULT 10  
 US-08-367-652-40  
 Sequence 40, Application US/08362652  
 Patent No. 5766830

GENERAL INFORMATION:  
 APPLICANT: Gallatin, W. Michael  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Van der Vieren, Monica  
 TITLE OF INVENTION: NO. 5766850e1 Human 2 Integrin Alpha Subunit  
 NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
 STREET: 233 South Wacker Drive, 6300 Seaf Tower  
 CITY: Chicago  
 STATE: Illinois  
 COUNTRY: United States  
 ZIP: 60606-6402

COMPUTER READABLE FORM:  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/362,652  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/173,497  
 FILING DATE: 23-DEC-1993  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/286,889  
 FILING DATE: 5-AUG-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Williams Jr., Joseph A.  
 APPLICATION NUMBER: 38,659  
 REGISTRATION NUMBER: 27866/32391  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 312-474-6300  
 TELEFAX: 312-474-0448  
 TELEX: 25-3056  
 INFORMATION FOR SEQ ID NO: 40:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 18 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA  
 US-08-362-652-40

Query Match Score 18; DB 1; Length 18;  
 Best Local Similarity 100.0%; Prod. No. 0.38;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAACAGCAGGCCAGT 18  
 |||||||  
 Db 1 TGTAACAGCAGGCCAGT 18

RESULT 11  
 US-08-505-509-3  
 Sequence 3, Application US/08505509  
 Patent No. 5776680

GENERAL INFORMATION:  
 APPLICANT: Liebowitz, Michael J.  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: Liu, Yong  
 TITLE OF INVENTION: Diagnostic Probes for Pneumocystis Carinii  
 NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Richard R. Muccino  
 STREET: P.O. Box 1267  
 CITY: Princeton  
 STATE: New Jersey  
 COUNTRY: USA  
 ZIP: 08551

COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/505,509  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/298,087  
 FILING DATE:  
 APPLICATION NUMBER: US/07/922,987  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Muccino, Richard R.  
 REGISTRATION NUMBER: 32,538  
 REFERENCE/DOCKET NUMBER: UMDI-009

TELECOMMUNICATION INFORMATION:  
 FILING DATE: 30-JUL-1992  
 TELEPHONE: (609) 466-3407  
 TELEFAX: (609) 466-2760  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 18 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 MOLECULE TYPE: DNA (genomic)

US-08-505-509-3

Query Match Score 18; DB 1; Length 18;  
 Best Local Similarity 100.0%; Prod. No. 0.38;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGAAAGGACGCCAGT 18  
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 Db 1 TGAAAGGACGCCAGT 18

RESULT 12  
 US-08-470-354-2  
 Sequence 2, Application US/08470354  
 Patent No. 5792053

GENERAL INFORMATION:  
 APPLICANT: CIGAN, Andrew M.  
 ATTORNEY/AGENT INFORMATION:  
 APPLICANT: ALBERSEN, Marc C.  
 TITLE OF INVENTION: Reversible Nuclear Genetic System For Male Sterility In Transgenic Plants  
 NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Foley & Lardner  
 STREET: 3000 K Street, N.W., Suite 500  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: USA



```

; Sequence 2, Application US/08726462B
; Patent No. 580996
GENERAL INFORMATION:
APPLICANT: Perkin-Elmer Corporation, Applied Biosystems
APPLICANT: Division
TITLE OF INVENTION: ENERGY TRANSFER DYES WITH ENHANCED
TITLE OF INVENTION: FLUORESCENCE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: David J. Weitz, Wilson Sonsini Goodrich
& Rosati
STREET: 650 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1050
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: Microsoft Windows 3.1/DOS 5.0
SOFTWARE: Worcsperfect for Windows 6.0,
SOFTWARE: ASCII (DOS) TEXT format
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/726,462B
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/642,330
FILING DATE: May 3, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/672,196
FILING DATE: June 27, 1996
ATTORNEY/AGENT INFORMATION:
NAME: David J. Weitz
REGISTRATION NUMBER: 38,362
REFERENCE/DOCKET NUMBER: PELM43.04
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 493-9300
TELEFAX: (415) 493-6811
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-726-462B-2

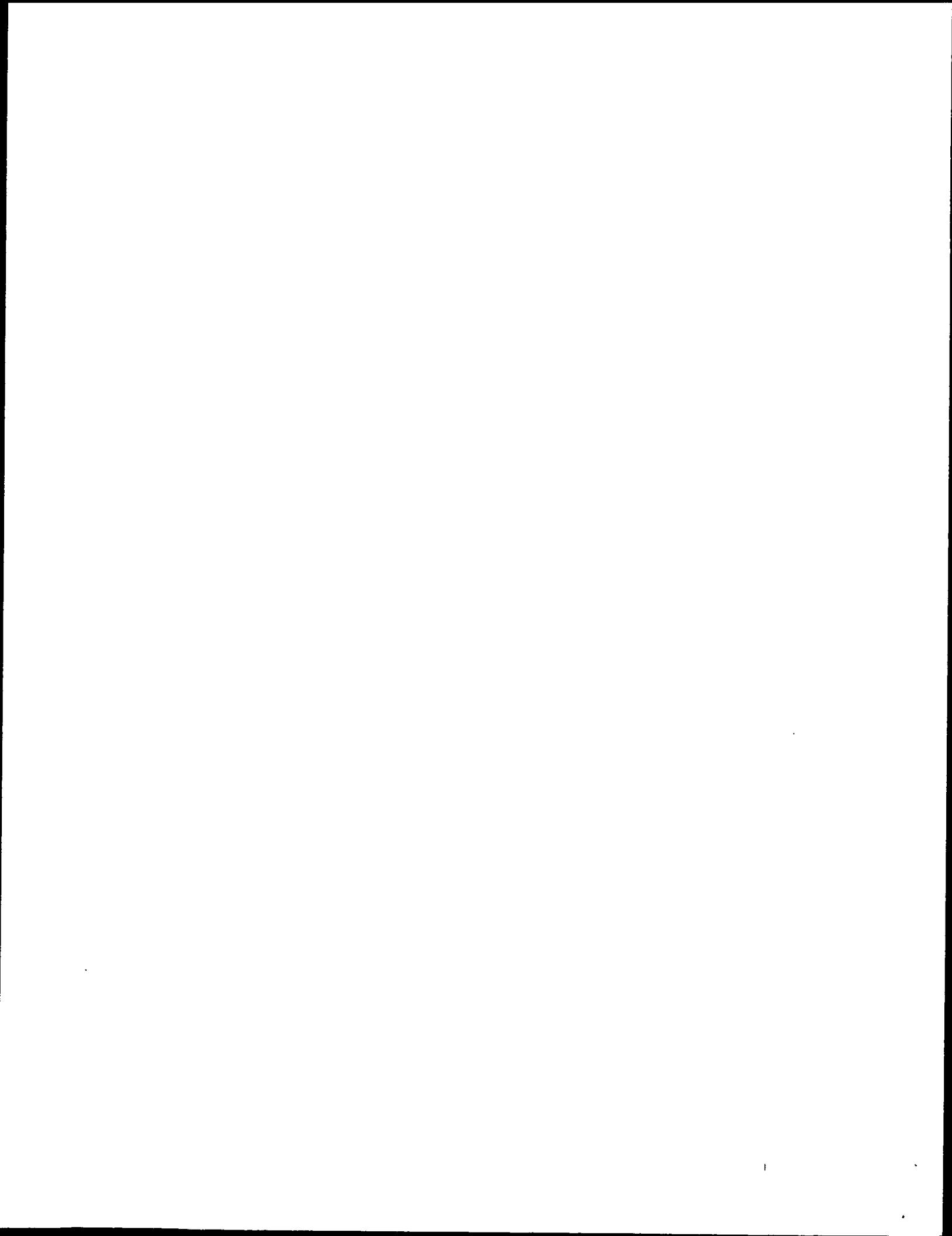
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Query Match `` 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. NO. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGTAAAACGACGGCCAGT 18
Db 1 TGTAAAACGACGGCCAGT 18

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Search completed: August 1, 2002, 09:30:48  
Job time: 6609 sec



Gencore version 4.5  
 Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 1, 2002, 08:39:40 ; Search time 2971.21 Seconds  
 (without alignments)  
 81.766 Million cell updates/sec

Title: US-10-014-743-2  
 Perfect score: 18  
 Sequence: 1 TGAAAAACGACGCCAGT 18

Scoring table: IDENTITY\_NUC  
 Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues  
 Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000  
 Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : EST:\*

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4: em_estin:*
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8: em_htc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_gss:*
13: em_gss_num:*
14: em_gss_inv:*
15: em_gss_Dln:*
16: em_gss_vrt:*

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## Database :

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1: em_estba:*
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14: em_gss_inv:*
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16: em_gss_vrt:*

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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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c 2		18	100.0	88	10	BI938357		BI938357 de42a01.y
c 3		18	100.0	89	10	N28043		N28043 EST000247 S
c 4		18	100.0	90	9	AJ239924		AJ239924 AJ239924
c 5		18	100.0	92	10	N28040		N28040 EST000177 S
c 6		18	100.0	94	10	BIBA5735		BIBA5735 fs96e02.x
c 7		18	100.0	96	10	R29179		R29179 Fl-287D 22
c 8		18	100.0	99	10	T10982		T10982 lbc297 Huma
c 9		18	100.0	100	9	AA952864		AA952864 SMTBADA00
c 10		18	100.0	100	9	AA098627		AA098627 SMTBADAMS
c 11		18	100.0	100	9	AW113079		AW113079 MC7_322 mo
c 12		18	100.0	100	9	AW754394		AW754394 CM0 -CPN034
c 13		18	100.0	100	9	AW812014		AW812014 RC6 -SPN017
c 14		18	100.0	100	9	AWF12016		AWF12016 RC6 -STP017
c 15		18	100.0	100	10	BF901653		BF901653 RC4 -WT016
c 16		18	100.0	100	12	BH234794		BH234794 MEAA_B03
c 17		18	100.0	102	9	AA741768		AA741768 lmlv39b3/

BASE COUNT ORIGIN

AU180326 AU180326  
 BE079941 RC4 -BT024  
 AW154393 CM0 -CT034  
 BI716021 ic64f02.y  
 N28049 EST000286 S

AA28161 Lmlv39p7/  
 AA71956 Lmlv39p3/  
 AA728161 AA741956

AW754394 CM0 -BT032  
 AW759048 CM0 -BT010  
 AW809021 MRL -ST011

AW809014 MRL -ST011  
 AW809013 MRL -ST011

AI94035 CM0 -CT005  
 AW62733 CM0 -CT010  
 BE079985 RC4 -BT062

AB04151 SMTBADA00  
 AW855817 RC1 -CT027

AW750572 RC0 -CN002  
 AA864147 SMTB5000

BI675749 dag55c02.  
 N28034 EST000119 S

BH240653 ATXQ87TR  
 BH243317 AUTH80TR

BH471635 BOGD075TR  
 AA283326 RTH0B3 HT

BH240234 AUNIC60TR  
 BM128856 pb14b04.y  
 AW845527 MR1 -CH005

## ALIGNMENTS

RESULT 1  
 AA680645/c  
 LOCUS LmFrAm009 Leishmania major mRNA linear EST 09-DEC-1998  
 DEFINITION Leishmania major cDNA clone H02 5', mRNA sequence.  
 ACCESSION AA680645  
 VERSION AA680645.1 GI:26662650  
 KEYWORDS EST  
 SOURCE Unpublished (1997)  
 ORGANISM Leishmania major  
 Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;  
 Leishmania.

REFERENCE 1 (bases 1 to 73)  
 AUTHORS Norrish, A. R., Dyall, S.D., Smith, D.F. and Blackwell, J.M.  
 TITLE Analysis of Leishmania Major Amastigote Expressed Sequence Tags  
 JOURNAL Unpublished  
 COMMENT Contact: Blackwell JM  
 Cambridge Institute for Medical Research  
 Wellcome Trust/SRC Building, Addenbrooke's Hospital, Hills Road,  
 Cambridge CB2 2XY, UK  
 Tel: 01223 336 143  
 Fax: 01223 311 206  
 Email: jimb3@cus.cam.ac.uk

PCR PRIMERS

FORWARD: GTAAACGACGCCGACT  
 BACKWARD: GCAAACGCTATGACCATG  
 Seq primer: AATTAAACCCCTACTAAAGGG  
 High quality sequence stop: 72.

Location/Qualifiers

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 /strain="Friedlin"  
 /db\_xref="taxon:5664"  
 /clone="H02"  
 /clone\_lib="Leishmania major Amastigote Lambda zap II  
 library"  
 /cell\_type="Amastigote"  
 /note="Vector: Lambda zap II; Site\_1: xhol; Site\_2: NotI"

15 a 21 c 18 g 19 t

Query Match	100.0%	Score 18;	DB 9;	Length 73;		N28043/c
Best Local Similarity	100.0%	Pred. No. 22;				LOCUS
Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;		DEFINITION EST000247 S. mansoni cDNA Schistosoma mansoni CDNA clone
						SMTBADAMS247SK 5' end similar to <i>M. auratus</i> synaptosomal complex DNA mRNA sequence.
QY	1	TGTAAACACGGCCAGT 18				ACCESSION N28043
Db	71	TGTAAAAGACGCCAGT 54				VERSION N28043.1
RESULT	2					KEYWORDS GI:1145899
BI038357/c						ORGANISM Schistosoma mansoni.
LOCUS	B1938357	88 bp	mRNA	linear	EST 18-OCT-2001	Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigidaida; Schistosomatidae; Schistosoma.
DEFINITION de42a01.y1 Wellcome CRC PRN3 dorsal lip Xenopus laevis cDNA clone IMAGE:347413 5' similar to TR-QA75/2 Q47522 PLASMID PQF50 DNA WITH POLYLINKER AND PARTIAL LACZ GENE ; mRNA sequence ;						REFERENCE 1 (bases 1 to 89)
ACCESSION B1938357						AUTHORS Saber,M.A., Hamied,H., Elyassaki,W.M., Romelh,M., Ahmed,H., Mohareb M., ElDabaa,I. and Mamdouh,S.
VERSION B1938357.1						JOURNAL Unpublished (1995)
KEYWORDS EST.						COMMENT Contact: M.A. Saber, H. Hamied, W.M. El Yassaki, M. Romeih, H. Ahmed, M. Mohareb, I. El Dabaa, S. Mamdouh
ORGANISM African clawed frog.						TBRI Biochemistry Research Institute
Xenopus laevis						Imaba, P.O.Box 12411, Giza, Egypt
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;						TELE: 202 3121276
Xenopodidae; Xenopus.						Fax: 202 3121167
REFERENCE 1 (bases 1 to 88)						Email: M-Saber@FRCU.EUN.EG
AUTHORS Clifton,S., Johnson,S.L., Blumberg,B., Song,J., Hillier,L., Pape,D., Martin,J., Wyllie,T., Underwood,K., Theising,B., Bowers,Y., Person B., Gibbons,M., Harvey,N., Ritter,E., Jackson,Y., McCann,R., Waterston,R. and Wilson,R.						Seq primer: sk.
TITLE Washu Xenopus EST project, 1999						Location/Qualifiers
JOURNAL Unpublished (1999)						source 1..89
COMMENT Other_ESTs: de2a01.x1						/organism="Schistosoma mansoni"
Contact: Sandy Clifton, Ph.D.						/strain="Egyptian"
Washu Xenopus EST project, 1999						/db_xref="taxon:6183"
Washington University School of Medicine						/clone.lib="S. mansoni cDNA"
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA						/lab_host="E. coli XL Blue"
TEL: 314 286 1800						/note="vector: pBluescript II SK+; Site1: EcoRI; Site2: XbaI; mRNA was purified from adult couples of <i>S. mansoni</i> .
FAX: 314 286 1810						cDNA was constructed and cloned simultaneously using vector priming with the pBluescript II SK+ vector. cDNA was directionally synthesized from the EcoRI site in the vector to the XbaI site."
Email: est@watson.wustl.edu						BASE COUNT 23 a 23 c 24 t
Library constructed by A.M. Zorn (Wellcome/CRC Institute). DNA						ORIGIN Query Match 100.0%
Clone distribution: Xenopus clones from this library are available through the I.M.A.G.E. Consortium/LN1 at: info@image.lnl.gov						Best Local Similarity 100.0%
Trace considered overall poor quality						Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Seq primer: -40RP from Gibco						RESULTS 4
High quality sequence stop: 1.						AJ239924
FEATURES source						LOCUS AJ239924
/organism="Xenopus laevis"						DEFINITION Aspergillus niger ATCC6275 Aspergillus niger mRNA linear EST 10-AUG-1999
/clone.lib="IMAGE:3474313"						ACCESSION AJ239924
/tissue_type="dorsal lip"						VERSION AJ239924.1
/lab_host="DH10B (phage-resistant)"						KEYWORDS GI:5443915
/note="vector: pBSRN3; Site1: NotI; Site2: EcoRI; cDNAs were oligo-dT primed and directionally cloned. Staging according to Nieuwkoop and Faber. Library was constructed by A.M. Zorn (Wellcome/CRC Institute)."						ORGANISM Aspergillus niger
BASE COUNT 17 a 31 c 17 g 23 t						Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes; Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
ORIGIN						REFERENCE 1 (bases 1 to 90)
Query Match 100.0%						AUTHORS Choi,J.Y., Lee,D.W., Koh,J.S., Kim,J.H., Yang,M.S. and Chae,K.S.
Best Local Similarity 100.0%						JOURNAL Biotechnol. Lett. 21, 381-384 (1999)
Matches 18;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;		COMMENT Contact: Chae KS
QY 1	TGTAAAACGAGGCCAGT 18					Faculty of Biological Sciences
Db 21	TGTAAAACGAGGCCAGT 4					Chonbuk National University
RESULT 3						

FEATURES	source	Chonju 1. .90 /organism="Aspergillus niger" /strain="ATCC6215" /db_xref="taxon:5061" /clone="ANU6F05" /clone_lib="Aspergillus niger ATCC6275" /clone_id="21 a 22 c 27 g 20 t	Query Match Best Local Similarity Matches 18; Conservative 0; Score 100.0%; Pred. No. 23; Mismatches 0; Indels 0; Gaps 0;	EST 04-OCT-2001 94 bp mRNA neuronal Danio rerio cDNA clone 507610 3, similar to TR:Q7336 Q47336 LACZ-ALPHA PEPTIDE. ;, mRNA sequence.
RESULT	6	BI145735.c LOCUS f996C02.x1 DEFINITION zebrafish neuronal cDNA clone 507610 3, similar to TR:Q7336 Q47336 LACZ-ALPHA PEPTIDE. ;, mRNA sequence.	BI145735 LOCUS f996C02.x1 DEFINITION zebrafish neuronal cDNA clone 507610 3, similar to TR:Q7336 Q47336 LACZ-ALPHA PEPTIDE. ;, mRNA sequence.	
KEYWORDS	zebrafish.			
SOURCE	Danio rerio Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Teleostei; Ostariophysi; Cypriniformes Cyprinidae; Danio. 1 (bases 1 to 94)			
ORGANISM	Danio rerio			
REFERENCE	Clark,M., Johnson,S.L., Lehrach,H., Lee,R., Li,F., Marra,M., Eddy S., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wyllie,T., Underwood K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R., and Wilson,R.			
AUTHORS	washu Zebrafish EST Project 1998 Unpublished (1998)			
COMMENT	Contact: Stephen L. Johnson Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: zebrafish@wustl.edu			
JOURNAL	CDNA Library constructed by S. Lin DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: the I.M.A.G.E. Consortium/LINL, send email to: info@image.lnl.gov			
TITLE	4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA			
COMMENT	4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA			
JOURNAL	4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA			
FEATURES	source			
VERSION	5			
RESULT	N28040/c	92 bp mRNA EST 02-JAN-1996		
LOCUS	N28040	EST 02-JAN-1996		
DEFINITION	EST000177 S. mansonii cDNA Schistosoma mansonii cDNA clone CBS-325, SMTBADAMS0177SK 5', end similar to Homo sapiens cDNA clone mRNA sequence.			
ORGANISM	Schistosoma mansonii Schistosoma mansonii Schistosoma mansoni Metazoa; Platyhelminthes; Trematoda; Digenea; Bivalvia; Schistosomatidae; Schistosomidae.			
REFERENCE	N28040.1 EST. GI:1145896			
AUTHORS	1 (bases 1 to 92) Saber,M.A., Hamied,H.H., Elyassaki,W.M., Romeih,M., Ahmed,H., Mohareb ,M., ElDabaa,I. and Mandourah,S.			
SOURCE	Schistosoma mansoni CDNAS			
COMMENT	Unpublished (1995)			
FEATURES	source			
VERSION	5			
RESULT	N28040/c	92 bp mRNA EST 02-JAN-1996		
LOCUS	N28040	EST 02-JAN-1996		
DEFINITION	EST000177 S. mansonii cDNA Schistosoma mansonii cDNA clone CBS-325, SMTBADAMS0177SK 5', end similar to Homo sapiens cDNA clone mRNA sequence.			
ORGANISM	Schistosoma mansonii Schistosoma mansonii Schistosoma mansoni Metazoa; Platyhelminthes; Trematoda; Digenea; Bivalvia; Schistosomatidae; Schistosomidae.			
REFERENCE	N28040.1 EST. GI:1145896			
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VERSION	5			
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SOURCE	Schistosoma mansoni CDNAS			
COMMENT	Unpublished (1995)			
FEATURES	source			
VERSION	5			
RESULT	R29179/c	96 bp mRNA EST 03-DEC-1999		
LOCUS	R29179	EST 03-DEC-1999		
DEFINITION	F1-287D 22 week old human fetal liver cDNA library Homo sapiens			
COMMENT	CDNA clone F1-287D 5', mRNA sequence.			
FEATURES	source			
VERSION	7			
RESULT	R29179/c	96 bp mRNA EST 03-DEC-1999		
LOCUS	R29179	EST 03-DEC-1999		
DEFINITION	F1-287D 22 week old human fetal liver cDNA library Homo sapiens			
COMMENT	CDNA clone F1-287D 5', mRNA sequence.			
FEATURES	source			
VERSION	7			
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RESULT	R29179/c	96 bp mRNA EST 03-DEC-1999		
LOCUS	R29179	EST 03-DEC-1999		
DEFINITION	F1-287D 22 week old human fetal liver cDNA library Homo sapiens			
COMMENT</td				

REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE	Choi, S.S., Yun, J.W., Choi, E.K., Cho, Y.C., Sung, Y.C. and Shin, H.S. Construction of a gene expression profile of a human fetal liver by single-pass cDNA sequencing
JOURNAL	Human Genome
MEDLINE	96081342
COMMENT	Genome 6 (9), 653-657 (1995)
FEATURES	source
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	/note="Vector: PBluescriptII SK(-); Site_1: EcoRI; Site_2:
	XbaI; The cDNA library made by Oligo-dT primed and
BASE COUNT	24 a directionally cloned between 5' Exor I-XbaI, sites."
ORIGIN	25 c 17 g 26 t 4 others
RESULT	8
LOCUS	T10982/c
DEFINITION	hbc297 Human pancreatic islet mRNA sequence.
ACCESSION	T10982
VERSION	1
KEYWORDS	GI:391136
SOURCE	EST.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE	Takeda, J., Yano, H., Eng, S., Zeng, Y. and Bell, G.I.
JOURNAL	A molecular inventory of human pancreatic islets: sequence analysis
MEDLINE	of 1000 cDNA clones
COMMENT	Hum. Mol. Genet. 2, 1793-1798 (1993)
HMMI	Contact: Bell GI or Takeda, J
Univ. of Chicago	5841 S. Maryland Ave., MC1028, Chicago IL 60637
Tel:	312/029116
Fax:	312/7020271
Email:	g-bell@uchicago.edu
Seq Primer:	SK primer.
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	CDNA





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 DB 68 TGTAACGAGCGGCCAGT 51

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RESULT 15  
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 VERSION 1  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 REFERENCES  
 1 (bases 1 to 100)  
 Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,  
 Nagai,M.A., da Silva,W.Jr., Zago,M.A., Bordim,S., Costa,F.F.,  
 Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baita,G.S., Simpson,D.H.,  
 Brunstein,A., de Oliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare  
 M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J., and  
 Simpson,A.J.

TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags  
 Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

JOURNAL  
 MEDLINE  
 COMMENT Contact: Simpson A.J.G.  
 Ludwig Institute for Cancer Research  
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
 Brazil  
 Tel: +55-11-2704922  
 Fax: +55-11-2707001  
 Email: asimpson@ludwig.org.br  
 This sequence was derived from the FAPESP/LICR Human Cancer Genome project. This entry can be seen in the following URL  
 (<http://www.ludwig.org.br/scripts/gethtml12.pl?l=1=RC4&t2=RC4-MT0161-091200-011-h01&r3=2000-12-09&t4=1>)  
 Seq primer: puc 18 forward  
 High quality sequence stop: 100.  
 Location/Qualifiers  
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 /db\_xref="txon:6006"  
 /clone.lib="MT0161."  
 /dev\_stage="Adult."  
 /note="Organ: marrow; Vector: puc18; Site\_1: Smal; Site\_2:  
 Smal; A mini library was made by cloning products derived  
 from ORESTES PCR (U.S. Letters Patent application No. 196  
 716 - Ludwigs Institute for Cancer Research) profiles  
 into the pUC 18 vector. Reverse transcription of tissue  
 mRNA and cDNA amplification were performed under low  
 stringency conditions."  
 BASE COUNT 38 a 17 c 33 g 12 t  
 ORIGIN

Query Match 100.0%; Score 18; DB 10; Length 100;  
 Best Local Similarity 100.0%; Pred. No. 24;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 TGTAACGAGCGGCCAGT 18  
 DB 67 TGTAACGAGCGGCCAGT 84

